PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 131*355	FOR FURTHER ACTION	See item 4 below
International application No. PCT/US2005/001427	International filing date (day/month/year) 14 January 2005 (14.01.2005)	Priority date (day/month/year) 15 January 2004 (15.01.2004)
International Patent Classification (8th See relevant information in Form P		
Applicant UNIVERSITY OF DELAWARE		

1.	This international preliminary re International Searching Authorit	eport on patentability (Chapter I) is issued by the International Bureau on behalf of the ty under Rule 44 <i>bis</i> .1(a).
2.	This REPORT consists of a total	of 4 sheets, including this cover sheet.
		ence to the written opinion of the International Searching Authority should be read as a reference report on patentability (Chapter I) instead.
3.	This report contains indications	relating to the following items:
	Box No. I	Basis of the report
	Box No. II	Priority
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
	Box No. IV	Lack of unity of invention
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	Box No. VI	Certain documents cited
	Box No. VII	Certain defects in the international application
	Box No. VIII	Certain observations on the international application
4.		ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority

	Date of issuance of this report 17 July 2006 (17.07.2006)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Yolaine Cussac
Facsimile No. +41 22 338 82 70	e-mail: pt11@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

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REC'D	1	3	MAR	2006
WIPO	_			pe,

_	NTERNATIONAL SEARCHING AUTHORITY
r	To:
	JAMES M. OLSEN

	BOVE LODGE	& HUTZ LLP			PCT
	ORANGE STR	; - 8TH FLOOR EEET; P.O. BOX 22	07		ITTEN OPINION OF THE ONAL SEARCHING AUTHORITY
					(PCT Rule 43bis.1)
				Date of mailing (day/month/year)	0.8 MAR 2006
Applicant's or	agent's file refe	erence		FOR FURTHER	ACTION See paragraph 2 below
International a	pplication No.	Internat	ional filing date	(day/month/year)	Priority date (day/month/year)
PCT/US05/014	427	14 Janu	ary 2005 (14.01	.2005)	15 January 2004 (15.01.2004)
		tion (IPC) or both n	ational classifica	ation and IPC	,
IPC(7): G02B Applicant	6/30 and US C	C1.: 385/49			
	OE DEL ATIA	.DE			
UNIVERSITI	OF DELAWA	KE			
1. This opini	ion contains ind	ications relating to t	he following iter	ms:	
Во	ox No. I	Basis of the opinion			
Во	x No. II	Priority			·
Во	ox No. III	Non-establishment o	f opinion with re	egard to novelty, inve	entive step and industrial applicability
Во	x No. IV	Lack of unity of inve	ention		
Во				s.1(a)(i) with regard ons supporting such s	to novelty, inventive step or industrial statement
Во	x No. VI	Certain documents c	ited		
Во	ox No. VII	Certain defects in the	e international a	pplication	
Во	ox No. VIII	Certain ob	servations on the	e international applic	ation
o EUDTU	ER ACTION	r			
If a dema Internation Authority	and for international Preliminary other than this	ional preliminary exy Examining Autho one to be the IPEA	rity ("IPEA") e and the chosen	except that this does	be considered to be a written opinion of the s not apply where the applicant chooses an ne International Bureau under Rule 66.1 <i>bis(b)</i> idered.
IPEA a v	written reply to	gether, where appr	opriate, with an	nendments, before t	PEA, the applicant is invited to submit to the he expiration of 3 months from the date of iority date, whichever expires later.
For furthe	er options, see	Form PCT/ISA/220.			
3. For further	er details, see n	otes to Form PCT/IS	SA/220.		
	ailing address o		Date of complopinion	etion of this	Authorized officer
Comi P.O.	missioner for Pat Box 1450 andria, Virginia	ents		2005 (14.12.2005)	Brian M. Heals MMMM (III) (III) (III) (III) (IIII) (IIII) (IIIII) (IIIIII) (IIIIIIII
	(571) 273-320		1		- 5.5,500-1702

Form PCT/ISA/237 (cover sheet) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.	

Box No. I Basis of this opinion

PCT/US05/01427

1 With	regard to the language ship and the language
	regard to the language, this opinion has been established on the basis of: the international application in the language in which it was filed
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. With	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the ed invention, this opinion has been established on the basis of:
a.	type of material
	a sequence listing
	table(s) related to the sequence listing
b.	format of material
	on paper
	in electronic form
c.	time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in electronic form.
i	<u> </u>
'	furnished subsequently to this Authority for the purposes of search.
	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additio	onal comments:
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Form PCT/ISA/237(Box No. I) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/01427

1. Statement			
Novelty (N)	Claims	s <u>1-10</u>	YES
	Claims	NONE	NO
Inventive step (IS)	Claims	1-10	YES
		NONE	No
Industrial applicability	(IA) Claims	1-10	YES
		NONE	NO
. Citations and explanations:			
ptical fiber reflects from the tape ilicon-on-insulator waveguide. The J.S.P. No. 6,611,636 which teach taped coupler 5110,5106 to a silicate claimed structural limitations include limitations similar to that claims 1 and 6 along with other ad	tese initiations are recited test (Fig. 55) an optical concon-insulator structured which are not to be four of claim 1. Dependent claim timitations (See the control of the	of in claim 1. Typical of the priupler device that couples a light 102,103,104,106, however, and in the Deliwala 636' referentims 2-5 and 7-10 include the light dependent claims for these	for art references is Deliwalant beam 5120 that couples in the limitations of claims 1 ace. Independent claim 6 imitations of independent specific limitations.
J.S.P. No. 6,611,636 which teach taped coupler 5110,5106 to a silipach claimed structural limitations aclude limitations similar to that claims 1 and 6 along with other ad	tese initiations are recited test (Fig. 55) an optical concon-insulator structured which are not to be four of claim 1. Dependent claim timitations (See the control of the	of in claim 1. Typical of the priupler device that couples a light 102,103,104,106, however, and in the Deliwala 636' referentings 2-5 and 7-10 include the lights.	for art references is Deliwalant beam 5120 that couples in the limitations of claims 1 ace. Independent claim 6 imitations of independent specific limitations.